

ABSTRACT OF THE DISCLOSURE

Rolling devices such as roller skates, skateboards, rolling skis, and scooters are known which steer by tilt, but either the wheels do not tilt, or the mechanism is of complex design, or the wheels shift sideways upon tilt. A rolling device shall have tilt-steering wheels which tilt with the device, and which stay in the middle of the platform when steering, and which are cheaply manufactured. This invention comprises a wheel pair, consisting of two wheels 3a, 3b affixed to wheel-holders 4a, 4b, which are interconnected by two cross-guides 5, 6 thus forming a parallelogrammic link chain. The two cross-guides 5, 6 swivel having their swivel axes 9a, 9b oriented parallel to each other providing an angle between the set of swivel axes 9a, 9b and the set of pivot axes 7a, 7b, 7c, 7d of the four links which constitute the chain. The cross-guides are fixed at the device platform using three universal joints. One such tilt-steering wheel pair mechanism together with at least one fixed wheel are attached at opposite ends of the rolling device to make it work. Refer to FIG. 2.

(FIG. 2 may be used for publication in the Official Gazette)